PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 069547.0367	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/US2006/030636	International filing date (day/month/year) 04 August 2006 (04.08.2006)	Priority date (day/month/year) 04 August 2005 (04.08.2005)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant ESPEED, INC.				

 This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a). This REPORT consists of a total of 5 sheets, including this cover sheet. In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a to the international preliminary report on patentability (Chapter I) instead. This report contains indications relating to the following items: Box No. I	
In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a to the international preliminary report on patentability (Chapter I) instead. 3. This report contains indications relating to the following items: Box No. I Box No. II Priority	
to the international preliminary report on patentability (Chapter I) instead. 3. This report contains indications relating to the following items: Box No. I Basis of the report Box No. II Priority	
Box No. I Basis of the report Box No. II Priority	reference
Box No. II Priority	
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial	
applicability	
Box No. IV Lack of unity of invention	
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or incapplicability; citations and explanations supporting such statement	lustrial
Box No. VI Certain documents cited	
Box No. VII Certain defects in the international application	
Box No. VIII Certain observations on the international application	
4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44 <i>bis</i> .3(c) and 9 not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from date (Rule 44 <i>bis</i> .2).	

	Date of issuance of this report 05 February 2008 (05.02.2008)
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Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTH	HORITY		
To: Samir A. Bhavsar Baker Botts LLP 2001 Ross Avenue			PCT
Dallas, Texas 75201		INTERNA	WRITTEN OPINION OF THE ATIONAL SEARCHING AUTHORITY
			(PCT Rule 43bis.1)
		Date of mailing (day/month/year)	3 0 APR 2007
Applicant's or agent's file reference 069547.0367		FOR FURTHER	RACTION
International application No.	International filing date		See paragraph 2 below
PCT/US 06/30636	04 August 2006 (04		Priority date (day/month/year) 04 August 2005 (04.08.2005)
International Patent Classification (IPC) (IPC(8) - G06Q 40/00 (2007.01) USPC - 705/37	or both national classificat	ion and IPC	
Applicant ESPEED, INC.			
1. This opinion contains indications rela	ating to the following item	s:	
Box No. I Basis of the op	inion		
Box No. II Priority			
Box No. III Non-establishn	nent of opinion with regard	l to novelty, inventi	ve step and industrial applicability
Box No. IV Lack of unity o			Transity .
Box No. V Reasoned states citations and ex	ment under Rule 43 <i>bis</i> .1(a) planations supporting such	(i) with regard to no	velty, inventive step or industrial applicability
Box No. VI Certain docume			
Box No. VII Certain defects	in the international applica	ition	
Box No. VIII Certain observa	tions on the international a	pplication	
2. FURTHER ACTION			
other than this one to be the IPEA and opinions of this International Searching	the chosen IPEA has noting Authority will not be so	ified the Internation considered.	be considered to be a written opinion of the ply where the applicant chooses an Authority and Bureau under Rule 66.1 bis(b) that written
If this opinion is, as provided above co	onsidered to be a written or	pinion of the IPEA,	the applicant is invited to submit to the IPEA of 3 months from the date of mailing of Form
For further options, see Form PCT/ISA	mioner moin the pile	with date, whicheve	e expires later.
3. For further details, see notes to Form P	CT/ISA/220.		
ame and mailing address of the ISA/US I	CT/ISA/220. Date of completion of this	opinion	Authorized officer:
ame and mailing address of the ISA/US			Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 06/30636

Box No. I	Basis of this opinion
1. With r	egard to the language, this opinion has been established on the basis of: the international application in the language in which it was filed a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
•	egard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the d invention, this opinion has been established on the basis of: e of material a sequence listing table(s) related to the sequence listing
b. for	nat of material on paper in electronic form
c. time	c of filing/furnishing contained in the international application as filed filed together with the international application in electronic form furnished subsequently to this Authority for the purposes of search
	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Addition	nal comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US 06/30636

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1. Statement			
Novelty (N)	Claims	5, 9, 15, 19, 25, 29	YES
	Claims	1-4, 6-8, 10-14, 16-18, 20-24, 26-28, 30	NO NO
Inventive step (IS)	Claims	none	YES
	Claims	1-30	NO NO
Industrial applicability (IA)	Claims	1-30	YES
	Claims	none	NO NO

2. Citations and explanations:

Claims 1-4, 6-8, 10-14, 16-18, 20-24, 26-28, and 30 lack novelty under PCT Article 33(2) as being anticipated by US 2004/0143538 A1 to Kornhammer et al. (hereinafter 'Kornhammer').

As per claims 1, 11 and 21, Kornhammer discloses an apparatus, a method and a platform for processing trading orders, comprising a memory operable to store: a first order associated with a product comprising a displayed quantity and a reserved quantity (an order for a first financial instrument of the plurality of financial instruments is received from a first user, the order includes a first price per unit component, and a first unit quantity, the first unit quantity includes a disclosed liquidity quantity and an undisclosed liquidity quantity, see para [0016]); and a second order associated with the product and comprising a displayed quantity and a reserved quantity (a first sub-order, including the first price per unit component and the disclosed liquidity quantity and not including the undisclosed liquidity quantity, is sent to a first one of the plurality of trade execution entities for execution, see para [0031]); a processor coupled to the memory facilitate filing the displayed quantity of the first order with a corresponding portion of the counterorder; facilitate filing the displayed quantity of the first order with a corresponding portion of the counterorder; facilitate filing the displayed quantity for the first financial instrument in the updated order book information, and (2) the first price per unit component and the first undisclosed liquidity quantity, the reciprocal order is sent to one of the plurality of trade execution entities, see para [0018]); and allocate a first additional portion of the counterorder to the first order, the first additional portion based at least in part on a ration of the displayed quantity of the first order to a sum of the displayed quantity of the second order (if the target one of the trade execution entities, the first one of the trade execution entities, the method sends a second sub-order, including the first price per unit component and a second disclosed liquidity quantity equal to at least a portion of the undisclosed liquidity quantity to the target one of

As per claims 2, 12 and 22, Kornhammer further discloses wherein the processor is further operable to allocate a second additional portion of the counterorder to the second order, the second additional portion based at least in part on a ration of the displayed quantity of the second order to the sum of the displayed quantity of the first order and the displayed quantity of the second order (the method sends a second sub-order, including the first price per unit component and a second disclosed liquidity quantity equal to at least a portion of the undisclosed liquidity quantity to the target one of the trade execution entities; and then sends the reciprocal order to the target one of the trade execution entities, see para [0031]).

As per claims 3, 13 and 23, Kornhammer further discloses wherein the first and second orders comprise buy orders (buy order (or bid), see para [0053]) and the counterorder comprises a sell order (initiated a reciprocal (i.e., opposing), see para [0071] and claim 3).

As per claims 4, 14 and 24, Kornhammer further discloses wherein the first and second orders comprise sell orders (an ECN sell order, see para [0071]) and the counterorder comprises a buy order (initiated a reciprocal (i.e., opposing), see para [0071] and claim 3).

As per claims 6, 16 and 26, Kornhammer further discloses wherein the memory is further operable to store a third order (three orders have been placed, see para [0094]) associated with the product and comprising a displayed quantity and a reserved quantity; and the processor is further operable to facilitate filling the displayed quantity of the third order prior to allocating the first additional portion of the counterorder (Fig. 3).

As per claims 7, 17 and 27, Komhammer further discloses wherein the third order is received prior to the counterorder (The order server is configured to receive, from one or more users, orders for one or more of a plurality of financial instruments, at least some of the orders including a disclosed liquidity value and an undisclosed liquidity value, see para [0029]-[0030]).

As per claims 8, 18 and 28, Kornhammer further discloses wherein the processor determines whether any portion of the counterorder remains unfilled after the displayed quantities of the first order, second order, and the third order are filled (it will then assess whether there is enough stock at the 24.05. level to fill the order, see para [0060]); and the processor allocates the first additional portion of the counterorder to the first order only if some portion of the counterorder remains unfilled after the displayed quantities of the first order, the second order, and the third order are filled (make this information available to reciprocal orders from other of its user/traders. This permits orders to hit or take as large a size as is possible, in essence disregarding the displayed size, see para [0072]).

-- CONTINUED IN SUPPLEMENTAL BOX --

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US 06/30636

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

v. 2 Citations and explanations

As per claims 10, 20 and 30, Kornhammer further d. ... oses wherein the processor is further operable to determine whether any remaining portion of the counter order exists prior to allocating the first additional portion (the system considers undisclosed liquidity which is being maintained in CCS 100 when routing a reciprocal order that can access multiple trade execution entities, see para [0091])

Claims 5, 9, 15, 19, 25 and 29 lack an inventive step under PCT Article 33(3) as being obvious over Kornhammer.

As per claims 5, 15 and 25, Kornhammer discloses an apparatus as provided above with respect to claims 1, 11, 21 for apportioning trading ordering orders based on size of displayed quantities. Kornhammer, however, does not specifically disclose wherein the displayed quantity of the first order and the displayed quantity of the second order are filled in the same sequence that the first order and the second order were received. It would have been obvious to one of ordinary skill in the art that the orders are filled in the sequence they are received because first in first out is a common choice in determining the execution of orders. Further, using such a methodology with the method in Kornhammer would enhance its functionality.

As per claims 9, 19 and 29, Kornhammer further discloses the processor is operable to allocate a second additional portion of the counterorder to the first order (the method sends a second sub-order, including the first price per unit component and a second disclosed liquidity quantity equal to at least a portion of the undisclosed liquidity quantity to the target one of the trade execution entities; and then sends the reciprocal order to the target one of the trade execution entities, see para [0031]). Kornhammer, however, does not specifically disclose the first order received at a first time and the second order received at a second time and using the difference between the first and second time to allocate a portion of the counterorder. It would have been obvious to one of ordinary skill in the art to ensure that the orders are received at different times because orders commonly happen sequentially and it would have been obvious that the difference in time between a first order and second order with the method in Kornhammer would make the Kornhammer method more useful in real world situations and thereby enhances its overall appeal.

Claims 1-30 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.